

SAFETY DATA SHEET

Version 2

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Soil Service Inc. 3-18-18-1S
Recommended Use Agricultural Applications or Further Manufacturing Use
Restrictions on use None known
Manufacturer
SOIL SERVICE, INC.
2576 N County Road 1600 E.
Niota, IL 62358
1-888-313-2360
Emergency Telephone:
217-357-2360

2. Hazards Identification

GHS - Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal Word: None

Precautionary Statements:

• As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

3. Composition / Information on Ingredients

Non-Hazardous

Chemical name	CAS No.	Weight-%	EC No
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed
Trade Secret	-	Proprietary	Listed

4. First Aid Measures

Description of first aid measures

Inhalation Remove to fresh air. If symptoms persist, call a physician.
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Methods and material for containment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	Strong acids. Strong bases. Oxidizing agent. Calcium hypochlorite. Sodium hypochlorite. Sodium nitrite.

8. Exposure Controls / Personal Protection

Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	Slight, burnt wood
Appearance:	Clear	Odor Threshold:	No information available
Color:	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	7.7	pH Range: 7.50-7.70 (1:1 solution)
"Salt Out" Point (°F):	approx. -25°F	No information available
Melting Point/Freezing Point:		
Boiling Point/Boiling Range:		
Flash Point:		
Evaporation Rate (BuAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		Lower Flammability Limit:
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H₂O=1):	1.415	
Specific Gravity (2nd value):		
Water Solubility:		No information available
Solubility(ies):	Complete (100%)	No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available
Decomposition Temperature:		No information available
Kinematic Viscosity:		No information available
Dynamic Viscosity:		No information available
Oxidizing Properties:	No information available	
Explosive Properties:	Not considered to be an explosion hazard	

9.2. Other information

Softening Point:	No information available
Molecular Weight:	N/A
VOC Content(%):	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and Reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Oxidizing agent. Calcium hypochlorite. Sodium hypochlorite. Sodium nitrite.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. Toxicological Information**Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Numerical measures of toxicity

No information available

Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	16,951.70 mg/kg
ATEmix (dermal)	81,666.95 mg/kg
ATEmix (inhalation-dust/mist)	101.98 mg/l

Unknown Acute toxicity 37.2 % of the mixture consists of ingredient(s) of unknown toxicity

23.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

33.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

37.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

37.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

33.1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Trade Secret	> 90 mL/kg (Rat)	-	-
Trade Secret	= 8471 mg/kg (Rat)	-	-
Trade Secret	= 1950 mg/kg (Rat)	-	-
Trade Secret	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Trade Secret	= 3200 mg/kg (Rat)	-	-
Trade Secret	= 5750 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organ Effects: Eyes, Respiratory system, Skin.

Other Adverse Effects: No information available.

Aspiration hazard No information available.

12. Ecological Information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Trade Secret	-	16200 - 18300: 96 h Poecilia reticulata mg/L LC50	-	10000: 24 h Daphnia magna Straus mg/L EC50 3910: 48 h

				Daphnia magna mg/L EC50 Static
Trade Secret	-	26.5: 96 h Oncorhynchus mykiss mg/L LC50 24.8 - 29.4: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3.3: 96 h Pimephales promelas mg/L LC50 33: 96 h Pimephales promelas mg/L LC50 static	-	-

Persistence and Degradability: No information available.
Bioaccumulation: There is no data for this product.

Component Information

Chemical name	Partition Coefficient:
Trade Secret	-1.59

Other Adverse Effects: No information available.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging Do not reuse empty containers.

14. Transport Information

DOT
Description Not DOT Regulated

15. Regulatory Information

International Inventories

AICS Complies
TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS -
IECSC Complies
KECL Complies
PICCS Complies

Chemical name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Trade Secret	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(2)-1732	Listed	KE-35144	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(1)-452	Listed	KE-12167	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(1)-405	Listed	KE-01751	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(1)-379	Listed	KE-09799	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(1)-452	Listed	KE-28622	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	(1)-379	Listed	KE-01656	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Trade Secret	1.0
Trade Secret	1.0

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic health hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

16. Other Information

Prepared By: HSE Department
Issue Date: 02-Oct-2018
Revision Date: 23-Oct-2019
Revision Note: Reviewed and Re-issued.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet